



CITY OF SUGAR LAND

Engineering Department

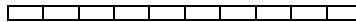
CIP Project Number: TR1003

Title: Rail Monitoring System

Project Phase: Construction

% of Phase Completion

Construction



Cost for this Phase: \$120,000

Funding Sources: General revenue

Project Manager: David Worley

Contractor: TBD

Consultant: TTI

Project Description: This will cover 6.4 miles of US 90A rail-highway corridor between Kirkwood and Grand Parkway. The system monitors the following parameters: presence of train and direction, speed of train, length of train, and crossing gate closures via monitoring of traffic signal preemption relays. Using this information, the system determines real time train status and projects downstream crossing closing and clearance times.

Justification: This project examined how real-time detection, communication, and information systems can be integrated to monitor the movements of trains in a corridor to reduce conflicts and delays created by railroad grade crossings for the primary benefit of fire and police personnel while on emergency runs.

Updates:

November 2009: Public Works and TTI are scheduled to meet end of December to develop scope for this phase of the project. The scope for this phase will include the design and specifications for the equipment to be used in implementation. This equipment will be compatible with our new WiFi system and ATMS.now traffic software.

December 2009 - The traffic Operations staff met with TTI to develop a scope for the rail monitoring project. New products were examined and will be included in the scope of the project. Expect new scope to be completed January 2010.

January 2010 - The traffic Operations staff continues to meet with TTI on developing a scope for the rail monitoring project. The focus has been on replacing obsolete equipment, software and communications back to Traffic Management Center. We anticipating completing this task by the middle of February.

